

What is claimed is:

1. A method for incremental forming carried out by applying an incremental forming tool to a metal workpiece and performing forming along a contour line, comprising:

a step of carrying out incremental forming by applying the incremental forming tool to the metal workpiece and moving the incremental forming tool along the contour line; and

a step of supplying heat to a strained portion of a product formed through said incremental forming step.

2. The method for incremental forming according to claim 1, wherein said step of carrying out incremental forming and said step of supplying heat are performed while a periphery portion of said metal workpiece is being gripped.

3. The method for incremental forming according to claim 1, wherein a portion receiving said heat is moved along an edge line of a form portion.

4. An incremental forming apparatus comprising: a table for mounting a metal workpiece; a workpiece clamp for fixing the metal workpiece to the table; a spindle disposed perpendicular to a plane formed by the table; and a means for relatively moving the table and the spindle; wherein the spindle mounts an incremental forming tool and a straightening tool in an exchangeable manner.

5. The incremental forming apparatus according to claim 4, wherein the straightening tool comprises a shank portion to be inserted to the spindle, a hot-air blowout portion, an electric heater for heating an air to be supplied, a sensor for detecting temperature of the hot air at the blowout portion, and a controller for controlling the heater based on data from the sensor.

6. The incremental forming apparatus according to claim 4, further comprising a means for moving the hot-air blowout portion of the straightening tool maintaining a predetermined distance from a surface of a processing portion.